

WHAT IS CLAIMED IS:

1. A structure of seat back in vehicle seat, in which the seat back has a seat occupant's back support side facing in a forward direction of the vehicle seat to supportively receive a back of an occupant on the vehicle seat and a backward side facing in a backward direction of the vehicle seat, comprising:

a back board means provided in said backward side of said vehicle seat, said back board means having a forward side facing to said forward side of said seat back and a backward side corresponding to said backward side of said seat back;

said back board means being so arranged as to normally provide a substantially flat plane rigid enough to withstand a first load applied toward said backward side of the back board means, thereby to allow the back board means to be usable as a means for carrying load and cargo thereon, while being resiliently deformable in said backward direction of the vehicle seat by a second load applied toward said seat occupant's back support side of said seat back.

2. The structure of seat back in vehicle seat as claimed in Claim 1, wherein said back board means comprises a back board formed from a hard yet elastically deformable material, wherein said back board includes a means for defining therein a plurality of crevices in substantially grid fashion, with such an arrangement that said crevices are normally closed so as to retain said back board in a substantially flat state, while being openable when said second load is applied to said back board, thereby allowing the back board to be resiliently deformed in said backward direction of the vehicle seat.

3. A structure of seat back in vehicle seat, in which the seat back has a seat occupant's back support side facing in a forward direction of the vehicle seat to supportively receive a back of an occupant on the vehicle seat and a backward side facing in a backward direction of the vehicle seat, comprising:

a seat back frame provided therein;

a back board means provided in said backward side of said vehicle seat, said back board means having: a forward side facing to said forward side of said seat back; and a backward side corresponding to said backward side of said seat back;

said back board means being so arranged as to provide a substantially flat plane rigid enough to withstand a first load applied toward said backward side of the back board means, thereby to allow the back board means to be usable as a means for carrying load and cargo thereon, while being resiliently deformable in said backward direction of the vehicle seat by a second load applied toward said seat occupant's back support side of said seat back;

a biasing means provided in said seat back frame, said biasing means being adapted to biasingly cause said back board means to expand flatly so as to provide said substantially flat plane; and

a stopper means for receiving and preventing said back board means against movement toward said forward side of said vehicle seat.

4. The structure of seat back in vehicle seat as claimed in Claim 3, wherein said biasing means comprises a tension coil spring connected between said seat back frame and said back board means.

5. The structure of seat back in vehicle seat as claimed in Claim 3, where said back board means includes a means for defining a plurality of crevices therein, with such an arrangement that said plurality of crevices are normally closed under a biasing force of said biasing means so as to normally retain said back board means in said substantially flat state, while being openable when said second load is applied to said back board, thereby allowing the back board to be resiliently deformed in said backward direction of the vehicle seat.

6. The structure of seat back in vehicle seat as claimed in Claim 5, wherein said back board means comprises a back board of a hard yet elastically deformable material, said back board having a plurality of cubic protrusions integrally formed in one side thereof corresponding to said backward side of said back board means, and wherein said means for defining a

plurality of crevices comprises a plurality of slits formed in said one side of said back board so as to define a plurality of crevices among said plurality of cubic protrusions, with such an arrangement that said plurality of crevices are normally closed by an elastically recovery property of said back board as well as under the biasing force of said biasing means, thereby resiliently biasing all said plurality of cubic protrusions into contact with one another, whereby said back board is normally retained in said substantially flat state, and that said crevices are openable when said second load is applied to said back board, thereby allowing the back board to be resiliently deformed in said backward direction of the vehicle seat.

7. The structure of seat back in vehicle seat as claimed in Claim 6, wherein said plurality of cubic protrusions are arranged in an orderly way in said back board, so that said plurality of crevices are disposed in a substantially grid fashion in the back board.

8. The structure of seat back in vehicle seat as claimed in Claim 5, wherein said back board means comprises: a plurality of plate pieces pivotally connected with one another, thereby providing a back board; and a plurality of stopper pieces which are integrally formed with said plurality of plate pieces, respectively, wherein said means for defining a plurality of crevices comprises a plurality of crevices each being defined between two of said plurality of stopper pieces, which in turns defines plural sets of said two of said plurality of stopper pieces in said back board, with such an arrangement that all said plurality of stopper pieces are normally biased into contact with one another under the biasing force of said biasing means, with said plurality of crevices being closed, whereby said back board is normally retained in a flat state to provide said substantially flat plane, and that, when said second load is applied to said back board, said plurality of stopper pieces are pivotally displaced away from one another to cause said plurality of crevices to open, thereby allowing the back board to be resiliently deformed in said backward direction of the vehicle seat.

9. The structure of seat back in vehicle seat as claimed in Claim 8, wherein said plurality of plate pieces are arranged in an orderly fashion in said back board, so that said

plurality of crevices are disposed in a substantially grid fashion in the back board.

10. The structure of seat back in vehicle seat as claimed in Claim 5, wherein said back board means comprises: a plurality of plate pieces; and a plurality of link pieces pivotally connected with said plurality of plate pieces, thereby providing a back board, wherein said means for defining a plurality of crevices comprises a plurality of crevices defined among said plurality of plate pieces, with such an arrangement that said plurality of plate pieces are normally biased under the biasing force of said biasing means into contact with said plurality of link pieces, with said plurality of crevices being closed, so as to allow said plurality of plate pieces to be movable only when said second load is applied to said back board, whereby said back board is normally retained in a flat state to provide said substantially flat plane, and that when said second load is applied to said back board, said plurality of plate pieces are pivotally displaced away from one another relative to said plurality of link pieces so as to cause said plurality of crevices to open, thereby allowing the back board to be resiliently deformed in said backward direction of the vehicle seat.

11. The structure of seat back in vehicle seat as claimed in Claim 10, wherein said plurality of plate pieces are arranged in an orderly fashion in said back board, so that said plurality of crevices are disposed in a substantially grid fashion in the back board.

12. The structure of seat back in vehicle seat as claimed in Claim 5, wherein said back board means comprises a back board of a hard yet elastically deformable material, said back board having a plurality of elastic hinge portions formed integrally in one side thereof corresponding to said backward side of said back board means, said plurality of elastic hinge portions each having a generally inverted-U-shaped cross-section, and wherein said means for defining a plurality of crevices comprises a plurality of crevices each being defined in another side of said back board corresponding to said forward side of said back board means at a point corresponding to each of said plurality of elastic hinge portions, with such an arrangement that said plurality of crevices are normally closed by an elastically recovery

property of said plurality of elastic hinge portions, thereby retaining said back board in said substantially flat state, and that said plurality of crevices are openable when said second load is applied to said one side of said back board, thereby allowing the back board to be resiliently deformed in said backward direction of the vehicle seat.

13. The structure of seat back in vehicle seat as claimed in Claim 12, wherein said plurality of elastic hinge portions are arranged in a substantially grid fashion in said one side of said back board, thereby defining said plurality of crevices in a substantially grid fashion in said another side of said back board.